```
> restart;
> F:=t->S*log(Fade*(t+1))/(1+C*exp(-a*t));
```

$$F := t \to \frac{S \log(Fade\,(t+1))}{1 + C\,e^{-a\,t}} \tag{1}$$

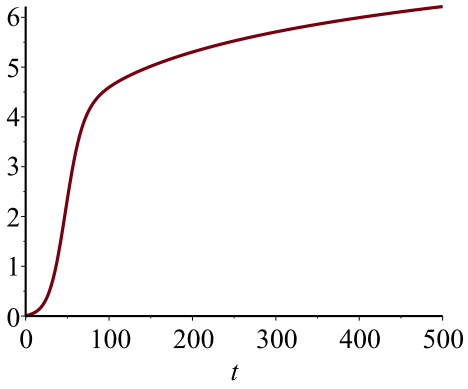
```
> dF:=t->diff(F(t),t):
> diff(dF(t),t):
> S:=1;Fade:=exp(0);C:=100;a:=0.1;plot(F(t),t=0..500);plot(dF(t),t=
  0..500);
```

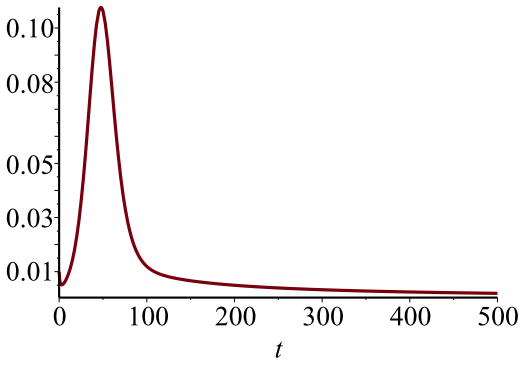
$$S := 1$$

$$Fade := 1$$

$$C := 100$$

$$a := 0.1$$






```
> diff(log(t),t);
```

$$\frac{1}{t} \tag{2}$$